DISASSEMBLING THERMOSTAT
To separate the thermostat from the backplate, hold the front of the thermostat with the hand. Use the thumbnail of the left hand to hook the extremely small rounded tab located on the top edge of the thermostat backplate and pull apart.

PUSH BUTTON FUNCTIONS
Press the **ON** button to activate the thermostat.
Press the **OFF** button to deactivate the thermostat. This will also drive the zone damper closed.
The **C/F** button switches the display between Fahrenheit and Celsius.

THERMOSTAT DISPLAY
The thermostat continuously displays room temperature.
If the thermostat calls for heating, “HEAT” will flash on the display. If the thermostat calls for cooling, “COOL” will flash on the display.
Setpoint limits are factory preset from 68° F to 76° F. It is recommended that these setpoint limits not be exceeded.

DISCHARGE AIR SENSOR
A discharge air sensor is supplied with each thermostat. The purpose of the discharge air sensor is to select the mode of operation of the damper. If the discharge air temperature is above 72° F, the damper will open on a call for heating. If the discharge air temperature is below 72° F, the damper will open on a call for cooling.

TESTING DISCHARGE SENSOR
Disconnecting the discharge air sensor will put the thermostat in the cool mode.
Shortening out the sensor will put the thermostat in the heat mode.

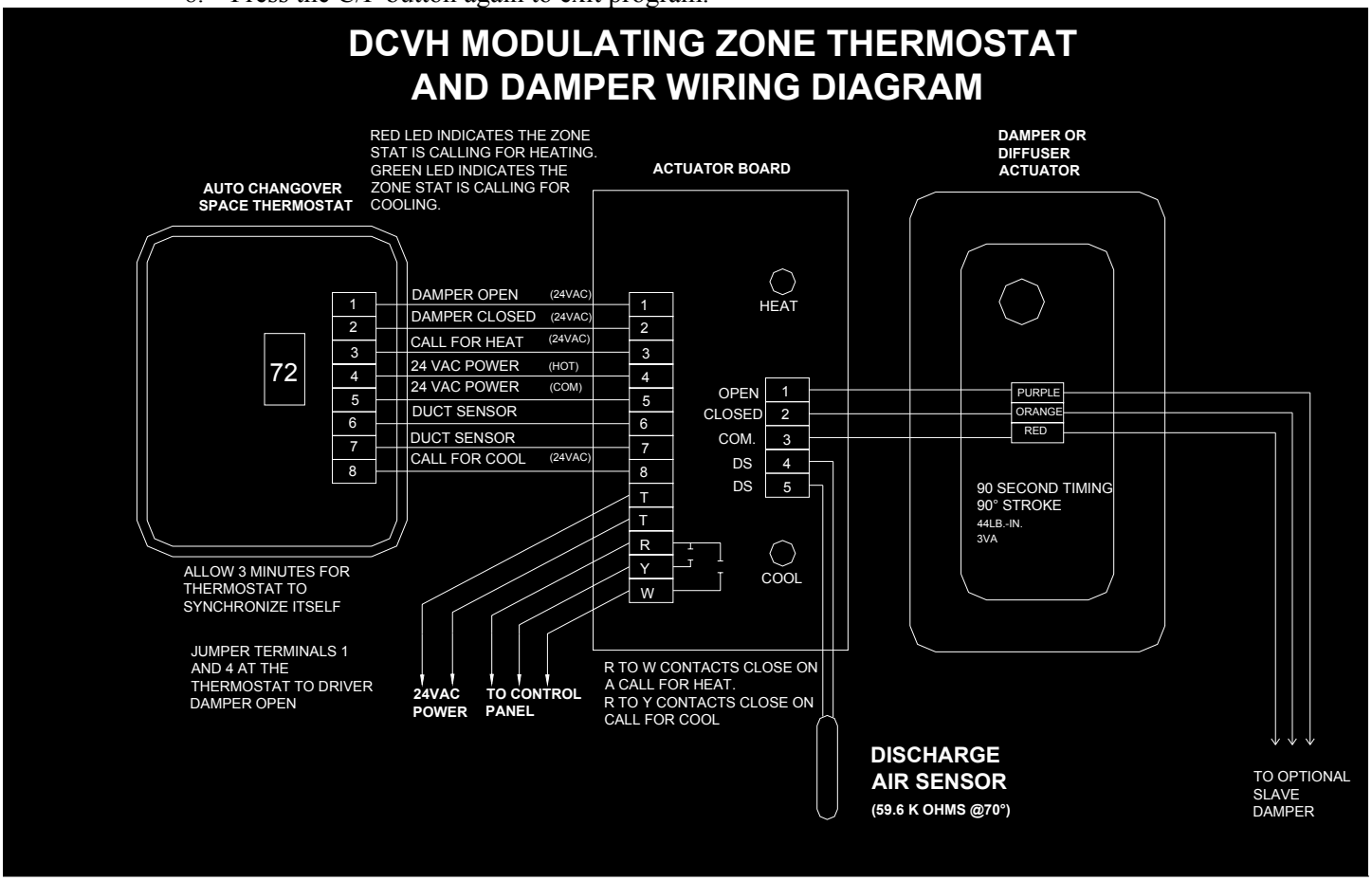
TERMINAL DESIGNATIONS

TERMINAL NUMBER	TERMINAL DESCRIPTION
1	OPEN DAMPER (24V OUT)
2	CLOSE DAMPER (24V OUT)
3	HEAT OUTPUT (24V OUT)
4	HOT (24V IN)
5	COMMON (24V IN)
6	DUCT SENSOR
7	DUCT SENSOR
8	COOL INPUT (24V OUT)

SETTING THERMOSTAT LIMITS

1. Set the setpoint as low as it will go.
2. Press and hold the C/F button until the stat beeps and the word “COOL” flashes
3. Use the (+) or (-) button to adjust the cooling limit.
4. Press the C/F button again until the stat beeps and the word “HEAT” flashes.
5. Use the (+) or (-) button to adjust the heating limit.
6. Press the C/F button again until the stat beeps and the word “AUX” flashes.
7. This is to adjust the thermostat calibration.
8. Press the C/F button again to exit program.

DCVH MODULATING ZONE THERMOSTAT AND DAMPER WIRING DIAGRAM



DCVH O&M

OPERATION SEQUENCE:
When the room temperature is 1.5 degrees below the setpoint the thermostat will close the R to W contacts on the actuator board and signal the DCVH panel that there is a heating call.
When the room temperature is 1.5 degrees above the setpoint the thermostat will close the R to Y contacts on the actuator board and signal the DCVH panel that there is a cooling call.

DAMPER NOTES:
To balance the HVAC system, remove each zone thermostat from its subbase and jumper terminals 1 and 4 to drive dampers open.
The actuator board is located on the side of the damper actuator and is wired at the factory.
Each zone damper requires 3VA.
The space thermostat will control up to 6 damper actuators wired in parallel.
If the discharge air temperature at the damper is warmer than 72 degrees, the zone damper operates as a heating damper.
If the discharge air temperature at the damper is below 72 degrees, the zone damper operates as a cooling damper.
The DCVH zone thermostats have temperature limits set at 68 degrees and 76 degrees and should not be changed.

DCVH PANEL NOTES:
Use standard 18 gauge thermostat wire.
Run three wire cable from the panel terminals (R, Y, W) to each individual zone damper actuator board.
Panel requires a 24VAC 40VA transformer.
Locate discharge air sensor 3 feet downstream in trunk line.
“Speed up jumper” shortens al the time delays on the control panel (use for testing only).
“Number of calls required resistor” determines the number of zones that must be calling in order for the system to bring on the heating or cooling equipment.
Time clock contacts are closed during occupied cycle.